

**Agenda for Residence Training on  
Climate Services Operations – NWS TC room 112  
Draft of January 11, 2017**

	Lecture		Practice	
Time	Tuesday, February 14	Wednesday, February 15	Thursday, February 16	
8 – 12	<b>Introduction (8-8:10) Bair</b> <b>(8:10 – 8:50 ) Timofeyeva</b> Know CFP role and functions, Mapping CFP functions to the course agenda Group picture (10:30)	<b>Climate Observations (8:00- 8:30) Mayes</b> Follow referral procedures for climate data distribution	<b>Climate Observations I (8:00 – 9:30) Korzeniewski</b> We will explore the basics of data stewardship, partner- ships, quality control, and metadata. We will learn about the automated QC algorithms of the GHCN database plus look at climate data tools such as CDO, Threadex, xmACIS2 and NOWData.  <b>Climate Observations II (9:40– 10:50) Korzeniewski</b> Our goals are to determine coop station history using HOMR and IPS, show the differences between xmACIS and CDO, understand the CDO QC flags, and learn how to correct data errors using Datzilla.	
	<b>NWS-NESDIS Collaborations (8:10 – 9:15) RCSD Doug Kluck</b> Understand NCEI (“NCDC”) RCSDs role and collaboration opportunities	<b>Lab xmACIS2 (8:30-9:30) Mayes</b> Use of xmACIS tool for local climatology studies		
	<b>Climate Variability (9:30-10:30) Mayes</b> Explain meaning, applicability and relevance of ENSO phenomenon to customers	<b>Local Climate Products and Tools (9:40-10:10) Bair</b> Deliver Local 3-month Temperature Outlook (based on downscaling); Identify role of local office in the L3MTO release; Explain L3MTO product interpretation and methodology to customers		
	<b>ENSO Current Status (10:30 – 10:45) Halpert</b>	<b>Local Climate Analysis Tool (10:20 – 12:00) Timofeyeva</b> Know principles of methodology for local climate analysis: composites and trends Become familiar with the LCAT results interpretation and use	<b>Use of NWS Climate Products in Decision Support Services Mayes (11:00-12:00)</b> Potential use of local climate products to enhance local office climate programs and support WRN goals	
	<b>Climate Variability (11:00-12:00) Mayes</b> Know how to use ESRL website to develop ENSO related web graphs and how to use NCEI data in separation and analysis ENSO active and neutral events			
12 – 13	<b>LUNCH</b>	<b>WORKING LUNCH:</b> <b>Local Climate Problem Discussion</b>	<b>LUNCH</b>	
13 – 17	<b>Climate forecast terminology (1:00-2:00) Halpert</b> Explain and apply climate forecast terms (e.g. meaning of categorical and probabilistic forecast, forecast confidence, use of EC, etc.)	<b>LCAT Lab /Timofeyeva (1:00-2:30)</b> LCAT applications for gaining local climate expertise, developing local climate studies, and enhancing climate services	<b>Climate Change (8:00 -9:00) Mayes</b> Discover the foundations of natural and human climate change forcings Understand resources for credible climate change information	
	<b>Interpretation of CPC climate products (2:10-3:40) Halpert</b> Explain main CPC climate products to local staff and customers (although the main focus will be LRO, other products, e.g. ERF, ENSO and drought monitoring products will be discussed).	<b>Drought (2:45-3:45) Bair</b> Explain phenomenon of Drought to local office staff and customers, explain standard definitions on NOAA drought indices, be able to identify drought in climate records, know who declared beginning and end of drought state and what is used in making these decisions	<b>Communicating Climate Information (2:15-3:00) Mayes</b> Learn science communication best practices; Explore communication techniques.	
	<b>CPC Forecast Verification and Evaluation Tool (3:50 – 4:50) Halpert</b> Explain to customers where, when and how skillful is the CPC seasonal forecast	<b>Summary Activity (4:00 – 5:00)– Mayes, Bair</b>		
	<b>Day Summary (4:50-5:00) Timofeyeva</b>		<b>Outreach and Communication Activity (3:15-4:30) Mayes</b> Practice outreach and communication based on real cases and scenarios. Explore outreach techniques that can be shaped to varying audiences.	
			<b>Course Conclusion (4:30-5:00) Timofeyeva</b>	

Breaks are not explicitly stated in this agenda, but assumed in the time spans between two consequent presentations.

Color Coding for training sections:

- **Blue** - develop skill in outreach and communication of NOAA climate information, products, and services
- **Red** - develop skill in integrity of historical climate records
- **Green** - develop skill in NWS climate analysis, monitoring and prediction activities